

## Symmetry and Asymmetry in Host-Guest Chemistry and Supramolecular Chemistry

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### Message from the Guest Editor

Neologisms of Host-guest chemistry by D. J. Cram, and that of Supramolecular chemistry by J. M. Lehn showed an importance of interaction between molecules, gave tremendous influence on, and initiated huge amount of researches in science. Nobel prize of chemistry was awarded to these researchers in 1987. In the late 1980s fabrications of molecular assemblies using intermolecular interactions came under the spotlight. Typical examples are the syntheses of catenanes, rotaxanes, and molecular knots. One of the applications in this field of chemistry is to make smallest machines at molecular level by fabrications of molecular components. Nobel prize in chemistry was awarded to three researchers working in this field in 2016. There are many other researches making unique structures and properties concerning symmetry and asymmetry but are not well known out of their research field. The aim of this Special Issue is to highlight science and engineering of intermolecular interactions by all aspects of Symmetry and Asymmetry including chemical, physical, biological, natural, artificial, and artistic points of view.....





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## Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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